

### MetaBright™ High Power Diffuse Tube Light Model#: MB-DT406



- Patent-pending LED heat management for consistent performance
- Optical grade reflector coating reflects 99.9% of light for optimum diffused output
- High intensity and uniform, non-directional illumination across entire lighting hemisphere for area scan
- Ideal for highly reflective surfaces and textured or topographic objects
- Provides cloudy day illumination, minimizing shadows and glare
- Enclosed workspace blocks interference of ambient light
- Strobe & dimming options

#### Specifications:

|                       |                     |
|-----------------------|---------------------|
| Current Consumption   | 4.0A @24VDC         |
| Housing               | Aluminium           |
| Finish                | Powder Coated Black |
| Intensity Uniformity  | +/-5%               |
| Weight                | 7.5lbs / 3,401g     |
| Operating Temperature | 120° F Max          |
| Illuminance           | 38,000 Lux          |
| Compliance            | CE/RoHS             |
| Lifetime Hours        | 75,000 Hours        |

#### Active Area

7 x 27 in  
177.8mm x 685.8mm

#### Dimensions

21.15 in x 28.9 in x 3.875 in  
537.21mm x 734.06mm x 98.42mm

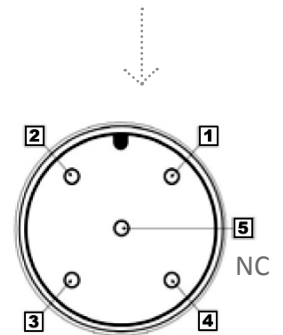
#### Wiring Diagram

| Flying Leads | Function |
|--------------|----------|
| RED          | +24VDC   |
| BLACK        | Ground   |

18 AWG 4 WIRES CABLE X 1  
When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

#### M12 Connector

| PIN # | Function                  |
|-------|---------------------------|
| 1     | +24VDC                    |
| 2     | 0-10VDC Intensity Control |
| 3     | Ground                    |
| 4     | Signal Ground             |



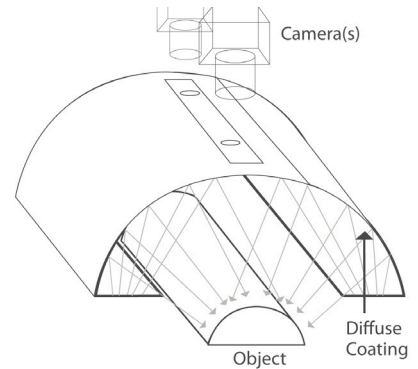
#### ORDERING INFORMATION:

• M B - D T 4 0 6 -  - 2 4 -

|            |                |               |  |
|------------|----------------|---------------|--|
| <b>W</b>   | White 6000k    | <b>*BLANK</b> | 10 ft. Flying Leads                            |
| <b>R</b>   | Red 630nm      | <b>T</b>      | M12 Quick Disconnect                           |
| <b>G</b>   | Green 530nm    | <b>ILD</b>    | In Line Dimmer                                 |
| <b>B</b>   | Blue 455 nm    | <b>ILS</b>    | In Line Strobe (customer provide trigger info) |
| <b>IRN</b> | Infrared 850nm | <b>LL</b>     | Long Focal Lens                                |

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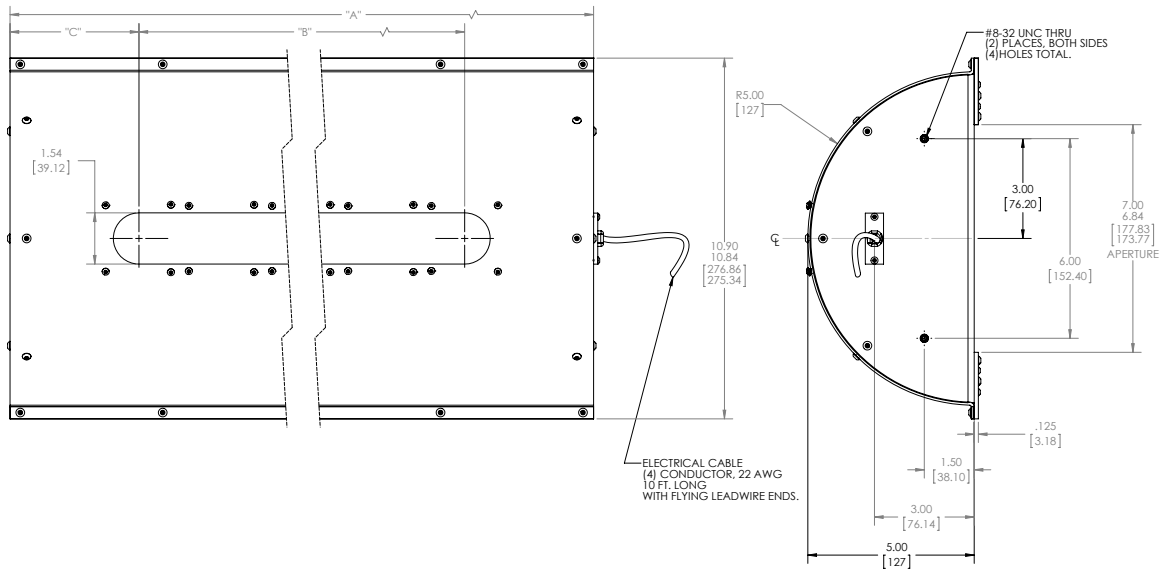


### Contact Us:

Contact your Metaphase Technologies Representative for options including: Diffuser Choice, Polarizer & Light Control Film, Specific Intensity & Uniformity, & Wavelength.

### Drawing/Diagram

| REVISIONS |      |                             |          |          |
|-----------|------|-----------------------------|----------|----------|
| ZONE      | REV. | DESCRIPTION                 | DATE     | APPROVED |
|           | A    | ADJUSTED DIMS FOR DT506, KW | 9/9/2011 |          |



| PART NO. | DESCRIPTION                       | "A" DIM.    | "B" DIM.    | "C" DIM.     |
|----------|-----------------------------------|-------------|-------------|--------------|
| MB-DT506 | HIGH POWER DIFFUSED TUBE 7" X 38" | 38.50 [978] | 33.6 [853]  | 2.45 [62.2]  |
| MB-DT406 | HIGH POWER DIFFUSED TUBE 7" X 27" | 28.9 [734]  | 21.15 [537] | 3.875 [98.4] |
| MB-DT306 | HIGH POWER DIFFUSED TUBE 7" X 15" | 17.75 [451] | 10.00 [254] | 3.875 [98.4] |

| UNLESS OTHERWISE SPECIFIED: |                | NAME       | DATE   |
|-----------------------------|----------------|------------|--------|
| DIMENSIONS ARE IN INCHES    | TOLERANCES:    | DRAWN      | KW     |
| FRACTIONS & DECIMALS        | ANGULAR: MINUS | CHECKED    | 9-7-11 |
| THREE PLACE DECIMAL         | MINUS          | ENG. APPR. |        |
|                             |                | MFG. APPR. |        |
|                             |                | G.A.       |        |
|                             |                | COMMENTS:  |        |

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TITLE: DIFFUSED TUBE LIGHT  
 SIZE: DWG. NO. C MB-DTXXX A  
 SCALE: 1:1 WEIGHT: SHEET 1 OF 1

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